

Name: \_\_\_\_\_

**Remediation – Factoring Differences of Two Squares – Version 2**

Directions: Please fully factor the following expressions.

1.  $x^2 - 64$

$$(x+8)(x-8)$$

2.  $y^2 - 121$

$$(y+11)(y-11)$$

3.  $25x^2 - 1$

$$(5x+1)(5x-1)$$

4.  $36x^6 - 25$

$$(6x^3+5)(6x^3-5)$$

5.  $625 - k^2$

$$(25+k)(25-k)$$

6.  $x^8 - 16$

$$(x^4+4)(x^4-4) \\ (x^4+4)(x+2)(x-2)$$

7.  $x^2y^6 - 4$

$$(xy^3+2)(xy^3-2)$$

8.  $64x^2 - 4$

$$4(16x^2-1) \\ 4(4x+1)(4x-1)$$

9.  $300x^2 - 3$

$$3(100x^2-1) \\ 3(10x+1)(10x-1)$$

10.  $50b^2 - 2y^2$

$$2(25b^2 - y^2) \\ 2(5b+y)(5b-y)$$